

INTERNATIONAL SEARCH REPORT

GB2004/004725

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04C27/00 F04B37/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F04C F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 018, no. 090 (M-1560), 15 February 1994 (1994-02-15) -& JP 05 296171 A (ULVAC JAPAN LTD), 9 November 1993 (1993-11-09) abstract; figures 1-3 -----	1-9
X	EP 0 874 158 A (THE BOC GROUP PLC) 28 October 1998 (1998-10-28) the whole document -----	1-9
A	US 5 863 317 A (SMITH ET AL) 26 January 1999 (1999-01-26) the whole document -----	1
A	DE 102 07 929 A1 (LEYBOLD VAKUUM GMBH) 4 September 2003 (2003-09-04) the whole document -----	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

2 February 2005

Date of mailing of the international search report

10/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040. Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ingelbrecht, P

INTERNATIONAL SEARCH REPORT

Information on patent family members

GB2004/004725

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 05296171	A	09-11-1993	NONE	
EP 0874158	A	28-10-1998	US 6244841 B1 EP 0874158 A1 JP 11050989 A	12-06-2001 28-10-1998 23-02-1999
US 5863317	A	26-01-1999	DE 69423564 D1 DE 69423564 T2 EP 0649997 A1 JP 7204405 A	27-04-2000 21-09-2000 26-04-1995 08-08-1995
DE 10207929	A1	04-09-2003	WO 03071134 A1 EP 1476661 A1	28-08-2003 17-11-2004